USE/ADVANTAGE L(2-A4, 2-G1) moulds. Low density inorganic moulding prodn. - by wetting microporous filler material with Ilq., water contg. wetting agent, mixing with stone forming component, pouring into mould and thermally *WO 9321126-A1 HUTR 92.04.1 92.10.31 92DE-4236855 (+92DE-4212229) (93.10.28) CO4B 28/00 28/26 (C04B 14:10, 14:18, 18:08, 18:14, 28/00, 22:00, 18:10) (CO4B 14:18, 28/26, CO6B 14:10) 5 HUELS TROISDORF AG hardening (Ger) 93-351577/44

C93,156006 N(AT AU BB BG BR CA CH CZ DE DK ES FIGB HU JP KP KR KZ LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN) R(AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE HAACK T, RANDEL P Addnl. Data:

WILLICH DAEMMSTOFFE & ISOLIERSYSTEME GMB (WILL-) 93.04.13 93WO-EP00900 93-328871/42 Method of producing a light, mainly inorganic moulding with a density below 400 kg/m3 consists of wetting a microporous liquid, water-containing wetting agent; mixing with a stoneretains its macrostructure; pouring into a mould; and press together with a liquid hardener so that the filler material filler material of powder density below 150 kg/m³ with a. forming component and optionally other solid components forming followed by removal and thermal hardening.

Making chimneys and chimney parts using steel tubular

The moulding has a high temp. strength, good alternating temp. strength, low thermal conductivity and has low shrinkage at high temperature.

EMBODIMENTS

The stone-forming component consists of: (1) a fine (2) a glass-like, amorphous electrofilter ash; and/or oxide mixture of amorphous SiO₂ and Al₂O₃; and/or ground calcined bauxite; and/or

(4) electrofilter ash from lignite coal fire power stations; (3)

(5) undissolved, amorphous SiO2, esp. from an amorphous, dispersed powder, dehydrated or hydrated silicic acid; and/or

and/or

The hardener is an alkali silicate solution with 1.2-3 mol SiO₂ per mol K₂O and/or Na₂O and a density of 1.4-1.7 (6) meta kaolin.

WO9321126-A+

WO9321126-A

A surfactant and a turbity agent may also be added to the mixture. The latter is pref. a vegetable ash such as rice shell ash. The filler material is pref. expanded vermiculite and/or pearlite.

The mixture is pressed in a mould to reduce the volume to 20-80, pref. 30-50% of the starting volume using a

pressure of 1-4 bar.

The mould is preheated to 40-250, pref. 100-170°C and after pressing is removed from the mould within 3 min. It is then hardened at 40-300, pref. 100-200°C.

(19pp1678KGDwgNo0/1).

SR:1.Jnl.Ref EP199941 EP417583 EP494015 JP03122068 WO8905783